

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P458824

Luminaire Tested: **GALN-SA3C-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14354 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

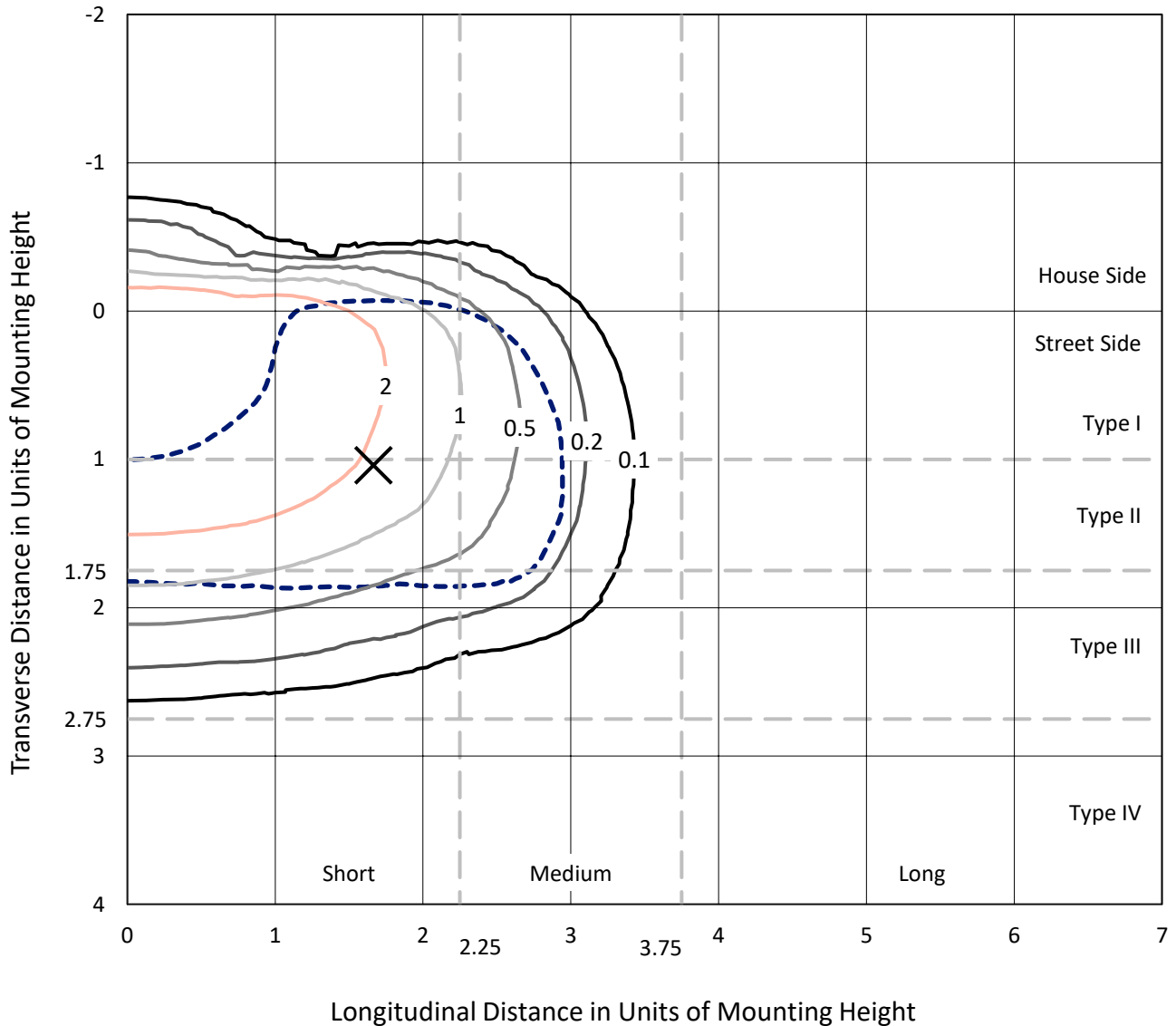
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

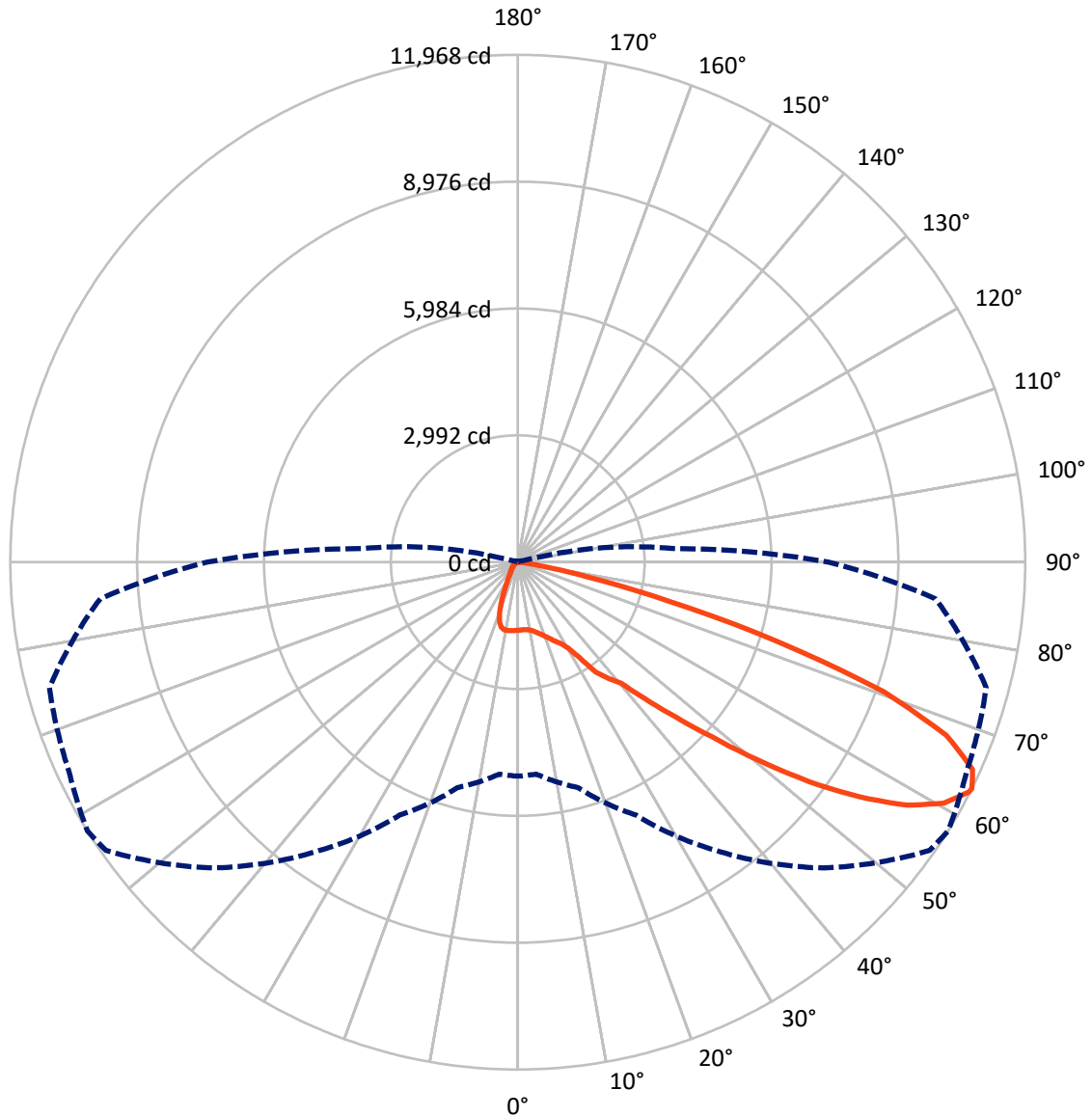
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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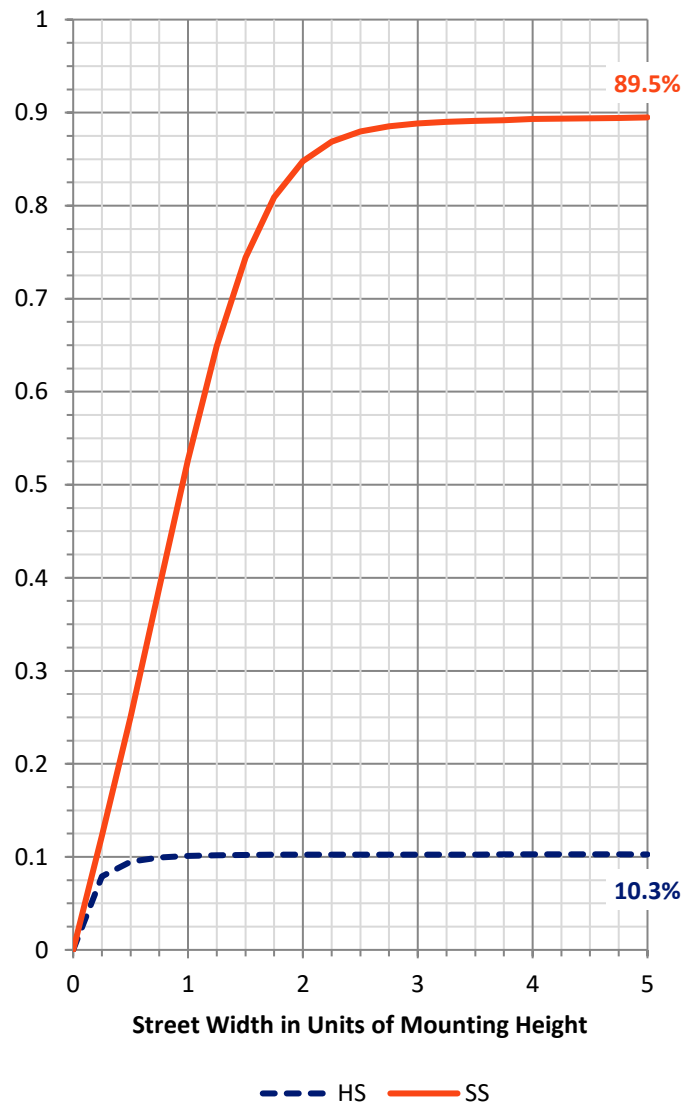
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1486.3	0.0	1486.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	12867.7	0.0	12867.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	14354.0	0.0	14354.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	1.0
10°-20°	409.7	2.9
20°-30°	711.1	5.0
30°-40°	1306.7	9.1
40°-50°	2459.9	17.1
50°-60°	4207.5	29.3
60°-70°	4028.7	28.1
70°-80°	1027.3	7.2
80°-90°	52.5	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14354.0	100.0
0°-180°	14354.0	100.0



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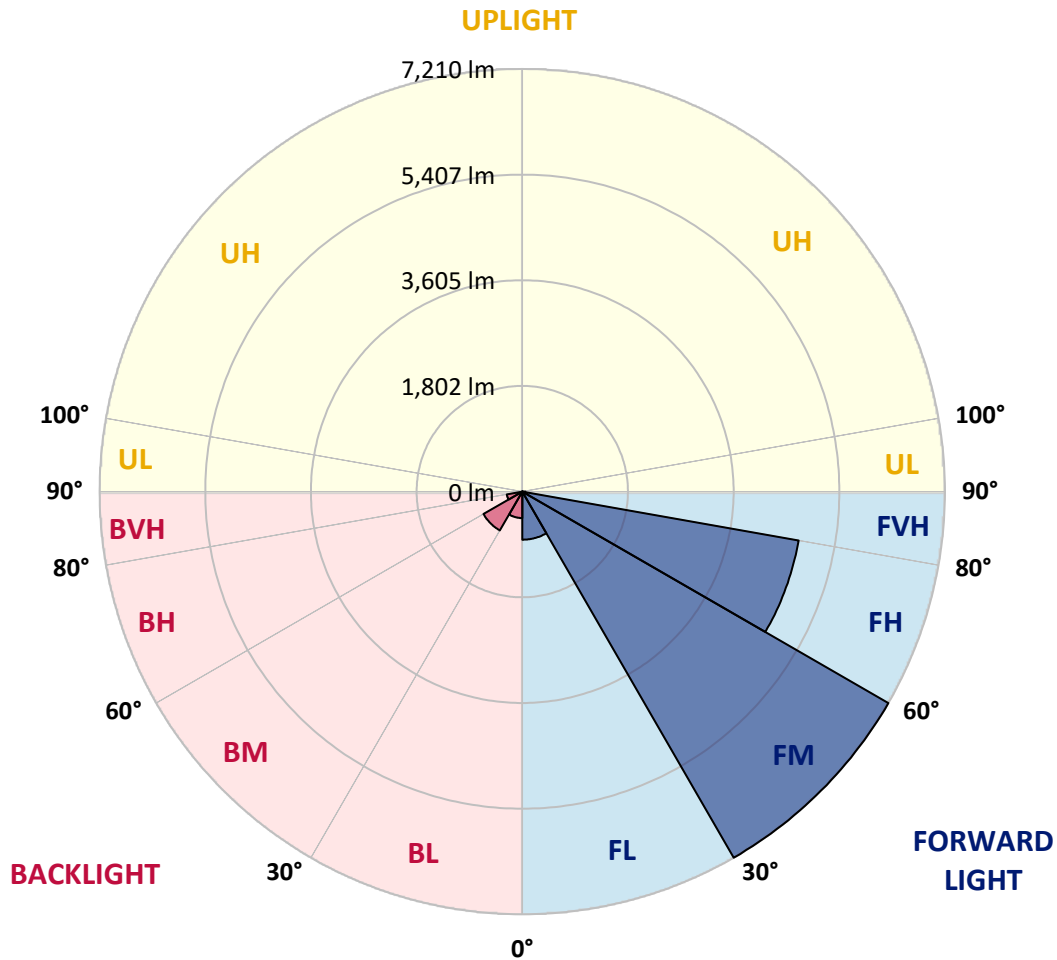
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	820.5	5.7			
FM (30°-60°)	7209.7	50.2			
FH (60°-80°)	4787.0	33.3			G2/5000
FVH (80°-90°)	50.5	0.4			G1/100
BL (0°-30°)	450.7	3.1	B1/500		
BM (30°-60°)	764.4	5.3	B1/1000		
BH (60°-80°)	269.0	1.9	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0
2.5°	1567.0	1572.4	1577.8	1580.0	1587.5	1595.1	1600.5	1599.4	1608.1	1612.4	1612.4
5°	1504.3	1504.3	1518.4	1531.3	1553.0	1574.6	1595.1	1599.4	1615.6	1630.8	1636.2
7.5°	1451.4	1454.6	1465.4	1489.2	1518.4	1556.2	1597.3	1607.0	1635.1	1668.6	1682.6
10°	1426.5	1428.7	1442.7	1467.6	1504.3	1556.2	1613.5	1631.8	1675.1	1728.0	1747.5
12.5°	1421.1	1424.3	1438.4	1466.5	1508.6	1571.3	1649.1	1668.6	1731.3	1799.3	1828.5
15°	1430.8	1433.0	1447.0	1477.3	1523.8	1598.3	1696.7	1723.7	1798.3	1877.2	1915.0
17.5°	1465.4	1463.3	1473.0	1497.8	1549.7	1631.8	1754.0	1786.4	1873.9	1982.0	2006.8
20°	1612.4	1598.3	1589.7	1568.1	1588.6	1679.4	1823.1	1870.7	1978.7	2089.0	2106.3
22.5°	1929.0	1897.7	1836.1	1751.8	1687.0	1744.2	1906.3	1961.5	2100.9	2208.9	2208.9
25°	2332.1	2292.1	2230.5	2046.8	1888.0	1851.2	2000.4	2069.5	2233.8	2342.9	2307.3
27.5°	2836.8	2805.5	2685.5	2471.5	2228.4	2038.2	2109.5	2173.3	2351.6	2483.4	2408.9
30°	3247.5	3232.3	3134.0	2942.7	2674.7	2397.0	2312.7	2354.8	2508.3	2660.7	2583.9
32.5°	3594.4	3594.4	3493.9	3315.6	3064.8	2818.4	2657.4	2687.7	2834.6	3010.8	2868.2
35°	3975.9	3962.9	3881.8	3712.2	3431.2	3214.0	3148.0	3189.1	3322.0	3452.8	3101.6
37.5°	4376.8	4372.5	4288.2	4123.9	3894.8	3621.4	3466.9	3477.7	3545.7	3625.7	3375.0
40°	4812.3	4818.8	4708.6	4607.0	4390.8	4110.9	3814.8	3746.8	3810.5	4036.4	3879.7
42.5°	5326.7	5311.6	5264.0	5125.7	4951.7	4784.2	4428.7	4403.8	4460.0	4702.1	4532.4
45°	5924.3	5946.0	5863.8	5787.1	5670.4	5531.0	5233.8	5190.6	5252.2	5628.2	5387.2
47.5°	6523.0	6502.5	6555.5	6541.4	6604.1	6500.3	6237.7	6149.1	6297.2	6653.8	6299.3
50°	6979.1	7001.8	7112.0	7273.0	7542.1	7600.5	7348.7	7318.4	7384.4	7613.5	7115.3
52.5°	7275.2	7350.9	7523.8	7937.7	8422.9	8800.1	8608.8	8592.6	8565.5	8627.1	7895.5
55°	7468.6	7545.4	7771.2	8380.7	9216.1	9828.9	9838.6	9769.4	9591.1	9546.8	8625.0
57.5°	7349.8	7364.9	7686.9	8501.8	9656.0	10562.7	10880.4	10811.2	10481.6	10314.1	9269.1
60°	6606.3	6637.6	7086.1	8043.6	9464.7	10802.6	11570.9	11539.6	11178.7	10989.5	9770.5
62.5°	5288.9	5379.7	5841.1	6908.9	8575.3	10398.4	11850.8	11939.5	11658.5	11398.0	9928.3
63°	5046.8	5017.6	5505.0	6578.2	8339.7	10198.5	11855.2	11967.6	11680.1	11436.9	9885.1
65°	3735.9	3823.5	4140.1	5187.3	6940.2	9268.0	11588.2	11787.1	11600.1	11265.1	9406.3
67.5°	2097.6	2093.3	2443.4	3394.4	4857.7	7269.8	10478.4	10898.8	10859.9	10108.8	7797.2
70°	1026.7	1042.9	1186.6	1759.4	2817.4	5015.5	8707.1	9161.0	9175.1	7939.8	5391.6
72.5°	464.7	472.3	574.9	857.0	1448.1	2670.4	6000.0	6433.3	6353.4	5059.8	2977.3
75°	245.3	261.5	316.6	431.2	698.1	1101.2	3263.7	3683.0	3515.5	2311.6	1095.8
77.5°	181.6	187.0	215.1	274.5	373.9	429.0	1408.1	1675.1	1569.2	836.5	363.1
80°	132.9	137.2	159.9	194.5	235.6	218.3	530.6	608.4	545.7	284.2	111.3
82.5°	81.1	82.1	116.7	144.8	148.1	122.1	175.1	188.0	196.7	159.9	60.5
85°	29.2	36.7	78.9	104.8	87.5	61.6	73.5	81.1	88.6	101.6	35.7
87.5°	3.2	4.3	37.8	50.8	24.9	22.7	27.0	30.3	32.4	37.8	17.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0	1607.0
2.5°	1616.7	1621.0	1617.8	1612.4	1611.3	1608.1	1601.6	1601.6	1601.6	1603.7	1601.6
5°	1640.5	1643.7	1636.2	1625.4	1613.5	1598.3	1582.1	1572.4	1571.3	1569.2	1563.8
7.5°	1685.9	1690.2	1672.9	1647.0	1614.6	1577.8	1543.2	1510.8	1495.7	1483.8	1483.8
10°	1751.8	1756.1	1721.5	1675.1	1610.2	1535.7	1453.5	1379.0	1320.6	1293.6	1287.1
12.5°	1830.7	1832.9	1775.6	1694.5	1587.5	1443.8	1268.7	1105.5	992.1	940.2	934.8
15°	1917.1	1902.0	1826.4	1702.1	1522.7	1254.7	952.1	752.2	634.4	599.8	612.8
17.5°	2004.7	1976.6	1865.3	1690.2	1376.8	952.1	639.8	513.3	476.6	466.9	466.9
20°	2086.8	2047.9	1893.4	1638.3	1123.9	656.0	474.4	444.2	437.7	431.2	432.3
22.5°	2168.9	2109.5	1918.2	1522.7	837.5	469.0	424.7	415.0	406.3	397.7	396.6
25°	2248.9	2166.8	1928.0	1308.7	570.6	403.1	388.0	375.0	357.7	348.0	345.8
27.5°	2332.1	2235.9	1921.5	1038.5	416.1	361.0	345.8	327.4	306.9	289.6	289.6
30°	2492.1	2367.8	1898.8	746.8	350.1	317.7	298.3	269.1	246.4	229.1	228.0
32.5°	2710.4	2539.6	1821.0	525.2	311.2	279.9	250.7	218.3	194.5	181.6	181.6
35°	2904.9	2712.5	1675.1	386.9	279.9	243.2	207.5	176.2	157.8	149.1	145.9
37.5°	3201.0	2965.4	1474.1	314.5	249.6	210.7	174.0	144.8	129.7	123.2	123.2
40°	3645.2	3274.5	1227.7	275.6	220.5	179.4	144.8	122.1	110.2	102.7	102.7
42.5°	4196.3	3652.7	978.0	247.5	193.4	154.5	121.0	103.7	92.9	87.5	86.5
45°	4890.1	4051.5	753.2	221.5	171.8	131.8	102.7	87.5	76.7	73.5	74.6
47.5°	5614.2	4402.7	583.6	198.8	149.1	111.3	87.5	75.6	68.1	63.8	63.8
50°	6232.3	4644.8	443.1	172.9	131.8	94.0	76.7	68.1	61.6	59.4	58.4
52.5°	6748.9	4715.0	339.3	150.2	115.6	81.1	68.1	61.6	56.2	53.0	53.0
55°	7188.7	4653.5	265.8	126.4	97.3	70.2	60.5	55.1	48.6	45.4	44.3
57.5°	7446.0	4455.7	203.2	104.8	78.9	58.4	53.0	46.5	38.9	33.5	33.5
60°	7575.6	4168.2	155.6	86.5	60.5	46.5	43.2	34.6	27.0	22.7	21.6
62.5°	7420.0	3786.7	117.8	68.1	45.4	34.6	29.2	24.9	17.3	13.0	13.0
63°	7323.8	3676.5	113.5	64.8	42.1	32.4	27.0	22.7	15.1	11.9	10.8
65°	6676.5	3195.6	92.9	51.9	33.5	22.7	18.4	16.2	10.8	5.4	4.3
67.5°	5301.9	2444.5	73.5	38.9	23.8	16.2	10.8	9.7	3.2	0.0	0.0
70°	3584.6	1578.9	57.3	28.1	16.2	9.7	5.4	4.3	1.1	0.0	0.0
72.5°	1869.6	809.4	44.3	20.5	9.7	6.5	3.2	1.1	0.0	0.0	0.0
75°	661.4	275.6	32.4	13.0	6.5	3.2	1.1	0.0	0.0	0.0	0.0
77.5°	199.9	102.7	20.5	9.7	4.3	2.2	0.0	0.0	0.0	0.0	0.0
80°	70.2	37.8	11.9	6.5	3.2	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	34.6	18.4	7.6	5.4	3.2	1.1	0.0	0.0	0.0	0.0	0.0
85°	19.5	11.9	6.5	5.4	3.2	2.2	0.0	0.0	0.0	0.0	0.0
87.5°	14.0	8.6	6.5	5.4	4.3	2.2	1.1	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)